

**REMARKS**

In this Second Supplemental Preliminary Amendment, Applicants have further amended the specification to correct typographical errors.

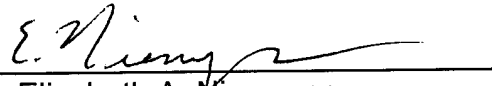
In view of the foregoing remarks, Applicants request the timely examination and allowance of the pending claims.

If there is any fee due in connection with the filing of this Preliminary Amendment, please charge the fee to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,  
GARRETT & DUNNER, L.L.P.

Dated: December 10, 2002

By:   
Elizabeth A. Niemeyer  
Reg. No. 52,070

FINNEGAN  
HENDERSON  
FARABOW  
GARRETT &  
DUNNER LLP

1300 I Street, NW  
Washington, DC 20005  
202.408.4000  
Fax 202.408.4400  
www.finnegan.com

**APPENDIX**

**IN THE SPECIFICATION:**

Please replace the paragraph beginning on page 1, line 12, with the following amended paragraph:

Generally, the liquid crystal cell is comprising of two substrates and liquid crystal formed between these substrates, the liquid crystal comprising anisotropic molecules. To provide an orderly alignment of liquid crystal in the cell for the uniform brightness and the high contrast ratio of the liquid crystal cell, [~~convnetionally~~] conventionally rubbing is carried out on alignment layers coating substrate. The rubbing is mechanical [~~firiction~~] friction on the alignment layer so as to provide a pretilt of liquid crystal molecules defined by a pretilt angle and a pretilt angle direction. The pretilt angle refers a polar angle and the pretilt angle direction refers [a] an azimuthal angle between the surface of alignment layer and the pretilt.

Please replace the paragraph beginning on page 2, line 9, with the following amended paragraph:

The liquid crystal cell is classified as a vertical aligned liquid crystal cell or [and] a horizontal aligned liquid crystal cell depending on the pretilt angle. The vertical aligned liquid crystal cell typically defines a liquid crystal cell having a pretilt angle of an alignment layer larger than 60°, the horizontal [~~aligned~~] aligned liquid crystal cell typically refers a liquid crystal cell having a pretilt angle of an alignment layer less than 5°.

FINNEGAN  
HENDERSON  
FARABOW  
GARRETT &  
DUNNER LLP

1300 I Street, NW  
Washington, DC 20005  
202.408.4000  
Fax 202.408.4400  
www.finnegan.com

Please replace the paragraph beginning on page 2, line 18, with the following amended paragraph:

There are several modes of liquid crystal cell according to relationships between a first pretilt angle direction of a first alignment layer and a second pretilt angle direction of a second alignment layer facing the first substrate. If the first pretilt angle direction is perpendicular to the second alignment direction, it is called a twisted nematic (TN) mode liquid crystal cell. If they are parallel with each other, the liquid crystal cell is called an electrically controlled birefringence (ECB) mode liquid crystal cell and a bend mode liquid crystal cell. In addition, it is called a In-Plane Switching (IPS) mode liquid crystal cell if a pretilt angle direction is shift depending on the [voltafe] voltage.

Please replace the paragraph beginning on page 6, line 15, with the following amended paragraph:

An object of the present invention is to provide a liquid crystal cell having an alignment stability and a [wilder] wider viewing angle [by] simply by the process and the fabrication method thereof.

Please replace the paragraph beginning on page 9, line 1, as amended on June 26, 2001, with the following amended paragraph:

FIGs. 7(a)–(d) show cross-sectional views of TN mode liquid crystal cells according to this invention.

Please replace the paragraph beginning on page 12, line 19, with the following amended paragraph:

FINNEGAN  
HENDERSON  
FARABOW  
GARRETT &  
DUNNER LLP

1300 I Street, NW  
Washington, DC 20005  
202.408.4000  
Fax 202.408.4400  
www.finnegan.com

The vertical [aligned] aligned liquid crystal cell can be fabricated by adopting photo-energy less than  $2,000 \text{ mJ/cm}^2$ , and the horizontal aligned liquid crystal cell can be fabricated by adopting photo-energy more than  $5,000 \text{ mJ/cm}^2$ .

Please replace the paragraph beginning on page 14, line 25, with the following amended paragraph:

There are several [mode] modes of liquid crystal cell depending on the configuration between the first pretilt angle direction and the second pretilt angle direction determined by either abovementioned process.

Please replace the paragraph beginning on page 22, line 6, with the following amended paragraph:

Attaching two substrates 1,2, liquid crystal materials are injected between two substrates 1,2. [The] Thus, the viewing angle is compensated by differently aligning the liquid crystal molecules according to each domain, as shown in FIG. 14g so as to get a wider viewing angle liquid crystal cell.

FINNEGAN  
HENDERSON  
FARABOW  
GARRETT &  
DUNNER LLP

1300 I Street, NW  
Washington, DC 20005  
202.408.4000  
Fax 202.408.4400  
www.finnegan.com